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THE
AMERICAN ARCHITECT

COMPRISED
ORIGINAL DESIGNS OF COUNTRY RESIDENCES
AND
AND PRACTICAL INFORMATION FOR THE
ARCHITECT AND BUILDER

RIVER & SONS ARCHITECTS

1847
NEW YORK

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Alan O'Bright

DESIGN NO. 4.

THE spirit of the age is not less visible in the overthrow of monopolies of knowledge than in sweeping away civil and political abuses. It has released Science from a sickly seclusion in cloisters, and sent her buoyant and smiling abroad. Instead of being honored as of yore by the initiated few, she now is worshipped in the cottage and workshop, in the office and homestead. She is blessing and is blessed by a world. Democracy in Philosophy, as in Politics, is the order and creed of the day. No hereditary proprietors to claim it and withhold it from others—no feudal tenures for the mind, but a perfect emergence from mental as from physical thralldom. The highest and what will be one of the most enduring characteristics of our day is the POPULARIZATION and diffusion of USEFUL knowledge.

Works on the practical application of Science to almost every department of human pursuits have flowed and continue to flow from the Press. ARCHITECTURE, like other select branches, has been confined to a class.

To introduce a practical work on Architecture so as to be attractive and accessible to all, has seldom been attempted. A publication, containing Designs and Plans for CHEAP DWELLINGS, although desirable, has not been considered sufficiently exalted for the employment of the Artist's pencil.

The subject of this number is illustrative of our intention to produce Designs, the cost of which shall come within the range of persons possessing small means, and who have a laudable desire to expend the fruits of their industry so as to enable them to be "lords of their own castles."

PLATE XIII.

A Perspective View showing the Entrance Front and one side of the Building.

PLATE XIV.

Front and side Elevations.—For the height of each story, see Carpenter's Specification.

PLATE XV.

The first and second story Plans.

PLATE XVI.

DETAILS.—Fig. 1. Cornice of Main House.—Fig. 2. Cornice of Kitchen.—Fig. 3. Principal Room Door.—Fig. 4. Piazza Column, Cornice, &c.

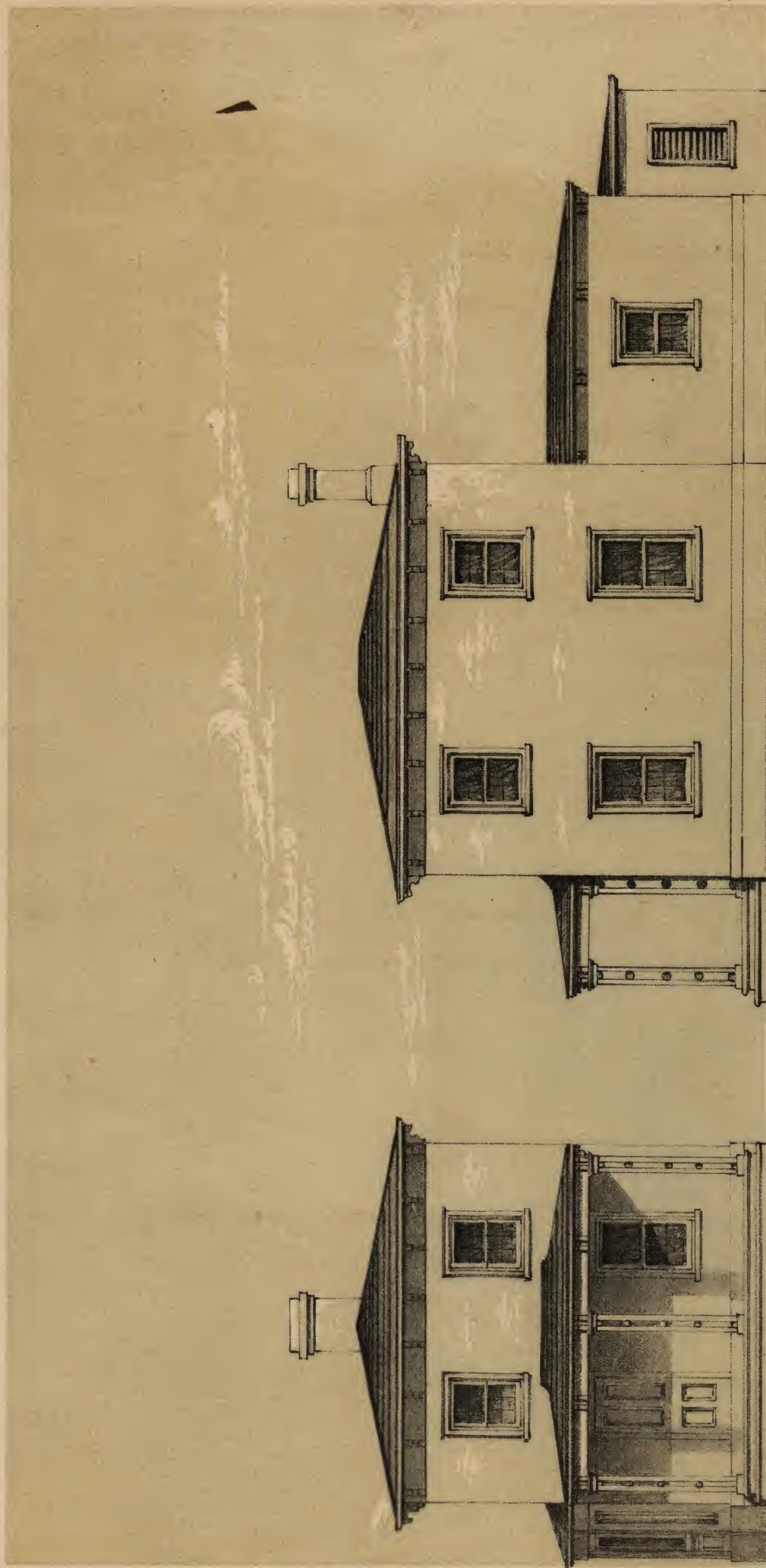
Estimate \$1,000.



Lith. of Jones & Newman,

PERSPECTIVE VIEW.

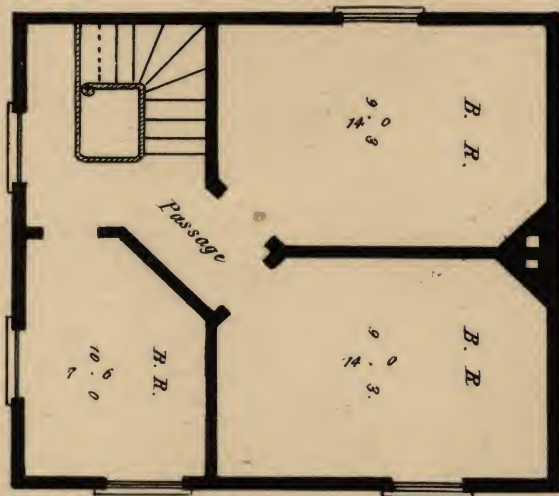
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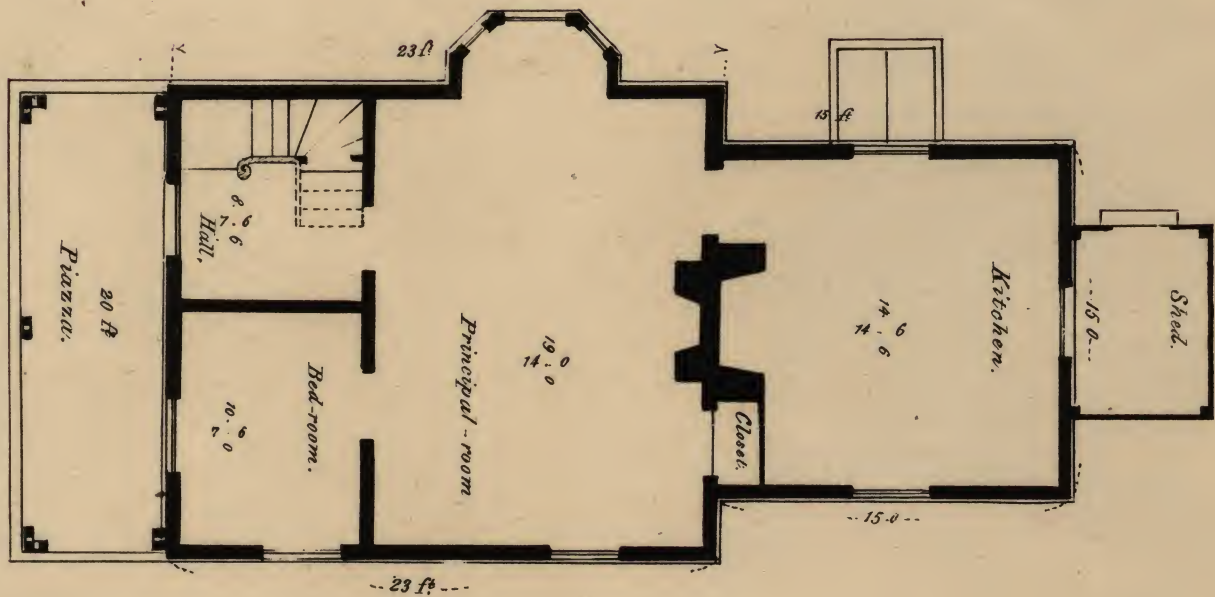
SIDE ELEVATION.

FRONT ELEVATION.

2nd Story.



1st Story.



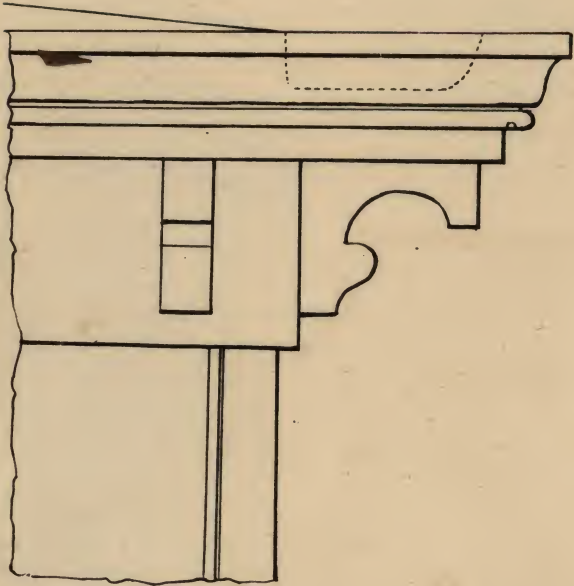


Fig. 1.
1 Inch scale.

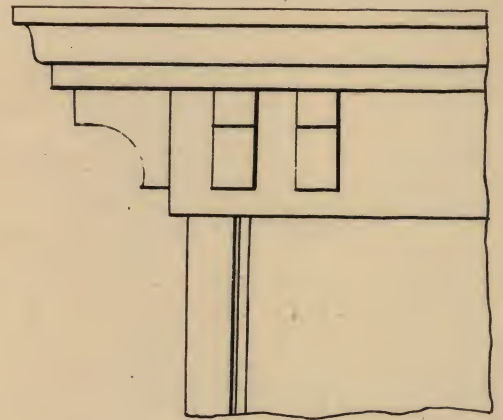


Fig. 2.
1 Inch scale.

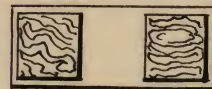
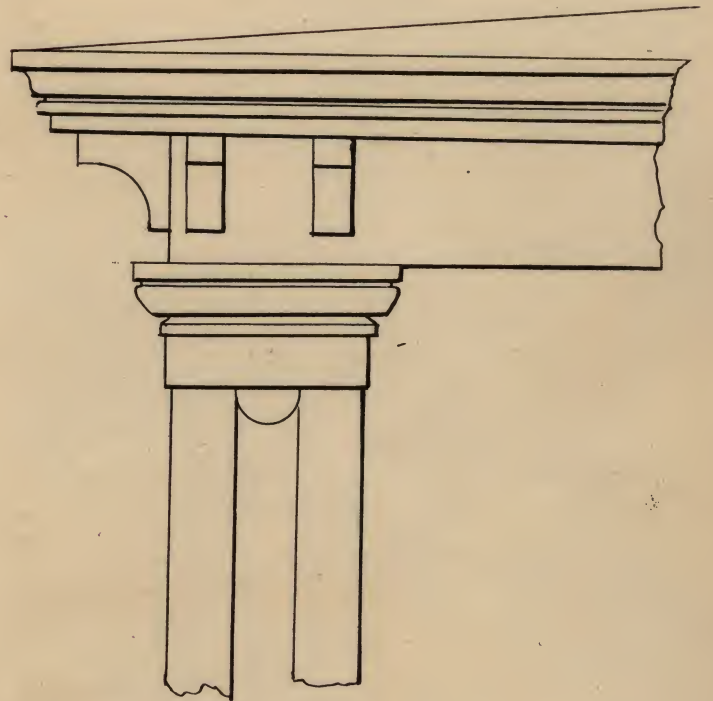


Fig. 4.
1 Inch scale.

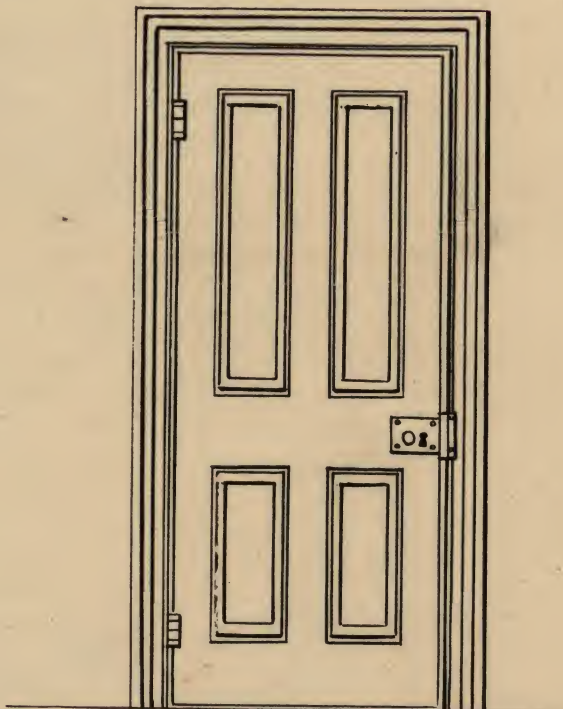
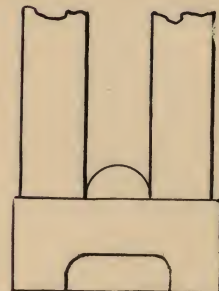
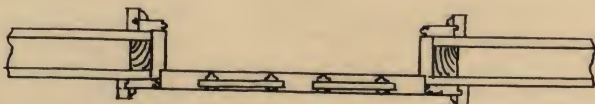


Fig. 3.
1/2 Inch scale.



DESIGN NO. 4.

CARPENTERS' SPECIFICATION.

[FOR DIMENSIONS, SEE THE DRAWINGS.]

- Stories.** CELLAR under Kitchen, 6 feet 6 inches; first story 9 feet; second story 7 feet 6 inches; the roof to rise 2 feet in the centre. All the stories to be of the above height in the clear.
- Timber.** The posts 3 by 6, sills 4 by 6, inter-ties 3 by 6, beams 3 by 8, trimmers and trimmer beams 4 by 8, all placed 24 inches from centres; braces 3 by 6, studding done with 3 by 4 hemlock joist, all placed 16 inches from centres; hip rafters 3 by 6 inches, other rafters 3 by 4; joist all placed 30 inches from centres; plates 3 by 6 inches, plank ferring between each beam in ceilings. The timber to be of good sound mill sawed Eastern pine, well framed, hard wood pins throughout.
- Windows.** For the number and size, see the drawings; the sash all $1\frac{1}{2}$ inches thick, box frames; first story lower sash hung with hemp cord, weights and patent pullies—second story and kitchen to have patent style fastening, on lower sash.
- Roof.** The roof planked with tongued and grooved sound $1\frac{1}{4}$ inch plank, well nailed, and to be covered with the first quality common tin, soldered; gutters lined with tin; 3 inch tin leaders; cornices as shown on drawings.
- Siding.** The siding to be done with good quality $\frac{3}{4}$ inch white pine boards, rabbeted so as to show $\frac{1}{2}$ inch on under edge, put on in courses, of the usual width, bead corner boards, &c.; all to be free from loose knots, and to be well nailed.
- Floors.** The floors to be laid with first quality merchantable, mill worked, planed, tongued and grooved $1\frac{1}{4}$ inch plank, laid in courses and well nailed; all well seasoned, and to be free from loose knots.
- Base.** Six inch plank bead base in first story; 5 inch board bead base in second story.
- Doors and Trimmings.** The front door $1\frac{3}{4}$ inches thick, hung with butts and fastened with bolts and 6 inch rim-lock. The doors in parlor $1\frac{1}{2}$ inches thick, double faced, hung with butts and fastened with 6 inch rimlocks. The other doors $1\frac{1}{4}$ inches thick, single faced, hung with butts and fastened with 5 inch rim-locks—doors all made in four panels—locks, bolts, butts, &c. to be of American manufacture.
- The doors and windows in parlor and hall of first story will be trimmed with 5 inch bead casings, with backing and moulding, and the windows trimmed to the floor. The other doors and windows throughout will be trimmed with $4\frac{1}{2}$ inch bead casings, and the windows trimmed on a plank sill—outside panel $1\frac{1}{4}$ inch shutters to each window in first story; green blinds to each window in second story—all to be well hung and fastened. One pair of cellar doors, with cheeks, &c.; hung with hinges.
- Stairs.** The steps all $1\frac{1}{4}$ inch thick, risers 1 inch thick; mahogany round $2\frac{1}{2}$ inch rail, turned $1\frac{1}{4}$ inch bannisters, 5 inch newel, well varnished. Stairs all to be well put up.
- Piazza.** As shown on the drawings—floor laid with planed, tongued and grooved $1\frac{1}{4}$ inch plank; ceiled with planed, tongued and grooved boards.
- Mantels.** Neat pilaster mantel to parlor, with caps, base, bed moulding under shelf, shelf $1\frac{1}{2}$ inch thick; painted two coats of black and varnished; shelf for kitchen fire-place supported on plank brackets.
- Painting and Glazing.** All the wood work usually painted, to have two good coats of pure white lead in oil. The glass throughout to be of the first quality American cylinder, well glazed.

MASONS' SPECIFICATION.

DESIGN 4.

- Digging.** EXCAVATE a Cellar under Kitchen, and distribute the earth around the building.
- Foundation walls.** The walls of cellar will start 6 inches below the cellar floor, and will be 16 inches thick up to the first story sill. The walls of house will start 2 feet 6 inches below the surface of the ground, and will be 16 inches thick up to the sill; foundation under chimney; also under piazza. All to be built of good building stone, laid in lime and sand mortar.
- Chimneys, &c.** Fire places and chimney built of good salmon brick, laid in good mortar; chimney topped out with smooth hard brick laid in cement, and to have stone cap in two courses—1st course 4 inches, 2d course 6 inches rise; fire stuff for one fire-place of brown stone rubbed; iron crane to kitchen fire place.
- Plastering.** The Parlor well lathed and plastered, three coats, the last hard finished; the residue of house, lathed and plastered two coats and a skim—all to be done with Rhode Island lime and sharp sand, sound long hair, best Croton plaster, &c., all put on in best manner—each story lathed and plastered down to the floor.
- Materials.** The materials throughout to be of the quality specified in the above specifications. The work to be done in a neat, substantial and workmanlike manner.

